

Lesson Plan

Name of Faculty: Ms. Varsha Rani, Assistant Professor of CSE

Discipline: Civil Engineering

Semester: 1st (odd)

Subject: Programming for Problem Solving (ESC-103)

Lesson Plan Duration: 15 weeks (from Jan-2021 to may-2021)

Week	Theory		Topic Covered Date and Remarks		
	Lecture-Day	Topic (Including Assignment/Test)	Date	HOD	Director-Principal
1 st	1	Introduction to Programming			
	2	Introduction to component of Computer System			
	3	Idea of Algorithm			
	4	Representation of Algorithm			
2 nd	5	Algorithm to programs			
	6	Arithmetic expression			
	7	Arithmetic precedence			
3 rd	8	Conditional branching			
	9	Conditional loops			
	10	Writing and evaluations of conditional branching			
	11	Iteration and loops			
4 th	12	Introduction of Arrays			
	13	1-D array			
	14	2 - D array			
	15	Character array			
5 th	16	String			
	17	Basic searching			
	18	Sorting algorithm			
6 th	19	Bubble , insertion , selection sort			
	20	Finding roots of equation			
	21	Notion of order of complexity			
	22	Functions			
7 th	23	Parameter passing in function			
	24	Call by value			
7 th	1st Minor Test				
8 th	25	Call by reference			
	26	Recursion			
	27	Finding factorial			
	28	Fibonacci series			
9 th	29	Ackerman function			
	30	Quick sort			
	31	Merge sort			
10 th	32	Assignment 1			
	33	Structures			
	34	Defining structure			
	35	Array of structure			
11 th	36	Problem and solution			
	37	Idea of pointers			
	38	Defining pointer			
	39	Use of pointer in structure			
12 th	40	Notion of linked list			
	41	Problem and solution			
	42	Assignment 2			
	43	File handling			
13 th	44	Program with help of pointer			
	45	Program on searching			
	46	Program on sorting			
	47	Program on array			
14 th	48	Program on structure			
	2nd Minor Test				

15 th	49	Problem on unit 1			
	50	Problem on unit 2			
	51	Problem on unit 3			
	52	Problem Solution			